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1 [An entity maintenance and connection service for sensor networks](#)  
[Brian Blum, Prashant Nagaraddi, Anthony Wood, Tarek Abdelzaher, Sang S. Stankovic](#)

May 2003 MobiSys '03: Proceedings of the 1st international conference on  
 applications and services

Publisher: ACM

 Full text available: [Pdf](#) (294.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 51, Citation (

In this paper, we present a middleware architecture for coordination sensor networks that facilitates interaction between groups of sensors which monitor environmental events. It sits on top of the native routing infrastructure

2 [Preserving peer replicas by rate-limited sampled voting](#)  
[Petros Maniatis, David S. H. Rosenthal, Mema Roussopoulos, Mary Baker, ... Mulladi](#)

December 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on  
 systems principles

Publisher: ACM

 Full text available: [Pdf](#) (336.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [terms](#)

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The LOCKSS project has developed and deployed in a world-wide test a system for preserving access to journals and other archival information on the Web. It consists of a large number of independent, low-cost, persistent

Keywords: digital preservation, rate limiting, replicated storage

Also published in:

December 2003 SIGOPS Operating Systems Review Volume 37 Issue 5

3 [Parallel simulation for aviation applications](#)  
[Frederick Wieland](#)

December 1998 WSC '98: Proceedings of the 30th conference on Winter simulation  
 Publisher: IEEE Computer Society Press

 Full text available: [Pdf](#) (82.27 KB) Additional Information: [full citation](#), [references](#), [terms](#)

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4 [A parallel embedded-processor architecture for ATM reassembly](#)

[Richard F. Hobson, P. S. Wong](#)

February 1999 IEEE/ ACM Transactions on Networking (TON) , Volume 7

Publisher: IEEE Press

Full text available:  [Pdf](#) (331.21 KB) Additional Information: [full citation](#), [references](#), [cite](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 23, Citation (

Key words: ATM, embedded systems, medium access control, segment reassembly

5 [Data-centric storage in sensornets with GHT, a geographic hash tab](#)

[Sylvia Ratnasamy, Brad Karp, Scott Shenker, Deborah Estrin, Ramesh Gov Yu](#)

August 2003 Mobile Networks and Applications , Volume 8 Issue 4

Publisher: Kluwer Academic Publishers


Full text available:  [Pdf](#) (255.10 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 120, Citation

Making effective use of the vast amounts of data gathered by large-scale (sensornets) will require scalable, self-organizing, and energy-efficient algorithms. For sensornets, where the content of the data is more important


Key words: algorithms, distributed systems, performance, sensor networks

6 [Scalable application layer multicast](#)

 [Suman Banerjee, Bobby Bhattacharjee, Christopher Kommareddy](#)

August 2002 SIGCOMM '02: Proceedings of the 2002 conference on Application technologies, architectures, and protocols for computer communication

Publisher: ACM

Full text available:  [Pdf](#) (561.69 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 62, Downloads (12 Months): 249, Citation


We describe a new scalable application-layer multicast protocol, specific to low-bandwidth, data streaming applications with large receiver sets. Our solution is based upon a hierarchical clustering of the application-layer multicast peers ...

Key words: application layer multicast, hierarchy, overlay networks, peer-to-peer systems, scalability

Also published in:

October 2002 SIGCOMM Computer Communication Review Volume 32 Issue 4

7 [Best-path vs. multi-path overlay routing](#)

 [David G. Andersen, Alex C. Snoeren, Hari Balakrishnan](#)

October 2003 IMC '03: Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement

Publisher: ACM


Full text available:  Pdf (142.64 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 119, Citation (

Time-varying congestion on Internet paths and failures due to software, configuration errors often disrupt packet delivery on the Internet. Many avoiding these problems use multiple paths between two network locati

Keywords: measurement, multi-path routing, networking, overlay netw

## 8 [Fast placement approaches for FPGAs](#)

 [Russell Tessier](#)

April 2002 Transactions on Design Automation of Electronic Systems  
Volume 7 Issue 2

Publisher: ACM


Full text available:  Pdf (606.13 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 67, Citation (

Recent trends in FPGA development indicate a strong shift toward design the use of intellectual property (IP). This design shift has motivated the Frontier, a timing-driven FPGA placement system that uses design macr

Keywords: Computer-aided design of VLSI, field-programmable gate a synthesis

## 9 [ACM SIGCOMM Computer Communication Review: Volume 32 Issu](#)

 July 2002 SIGCOMM Computer Communication Review

Publisher: ACM

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

## 10 [Performance analysis of a rate-based feedback control scheme](#)

[Lalita A. Kulkarni](#), [San-qi Li](#)


December 1998 IEEE/ ACM Transactions on Networking (TON) , Volume  
Publisher: IEEE Press

Full text available:  Pdf (419.31 KB) Additional Information: [full citation](#), [references](#), [cite](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 32, Citation (

Keywords: feedback control, numerical analysis, stochastic modeling, 1 performance

## 11 [Secure traceroute to detect faulty or malicious routing](#)

 [Venkata N. Padmanabhan](#), [Daniel R. Simon](#)

January 2003 SIGCOMM Computer Communication Review , Volume 33 Is  
Publisher: ACM

Full text available:  Pdf (233.68 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 61, Citation (

Network routing is vulnerable to disruptions caused by malfunctioning o that draw traffic towards themselves but fail to correctly forward the tra approach to addressing this problem is to secure the routing protocol ...

12 [A signaling architecture for wireless ATM access networks](#)

[Nikos H. Loukas](#), [Nikos I. Passas](#), [Lazaros Merakos](#), [Iakovos S. Venieris](#)

March 2000 *Wireless Networks* , Volume 6 Issue 2


Publisher: Kluwer Academic Publishers

Full text available:  Pdf (350.88 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 80, Citation

A multiservice wireless Asynchronous Transfer Mode &lpar;ATM&rpar; a considered from a signaling protocol viewpoint. In an attempt to genera results and experiences obtained from the specification, design, and im

13 [An end-to-end approach to globally scalable programmable networki](#)

 [Micah Beck](#), [Terry Moore](#), [James S. Plank](#)

August 2003 FDNA '03: Proceedings of the ACM SIGCOMM workshop on Fu network architecture

Publisher: ACM

Full text available:  Pdf (447.96 KB) Additional Information: [full citation](#), [abstract](#), [reference](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 66, Citation


The three fundamental resources underlying Information Technology ar storage, and computation. The goal of wide area infrastructure is to pro resources to enable applications within a community. The end-to-end pr

Key words: Internet Backplane Protocol, Logistical Network Computing, networking, asynchronous communications, distributed state managem design, network storage, programmable networking, scalability, store a network

Also published in:


October 2003 SIGCOMM Computer Communication Review Volume 33 Issue

14 [Topology-aware overlay networks for group communication](#)

 [Minseok Kwon](#), [Sonia Fahmy](#)

May 2002 NOSDAV '02: Proceedings of the 12th international workshop operating systems support for digital audio and video

Publisher: ACM


Full text available:  Pdf (248.00 KB) Additional Information: [full citation](#), [abstract](#), [reference](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 78, Citation

We propose an application level multicast approach, Topology Aware Gr which exploits underlying network topology information to build efficien among multicast group members. TAG uses information about path ove

Keywords: application level multicast, network, overlay networks, rout

15 [Web100: extended TCP instrumentation for research, education and](#)

 [Mati Mathis, John Heffner, Raghu Reddy](#)

July 2003 SI GCOMM Computer Communication Review , Volume 33 Issue

Publisher: ACM

Full text available:  [Pdf](#) (215.29 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 60, Citation (

TCP has become the dominant protocol for all network data transport be  
a simple uniform data delivery service which is sufficient for most applic  
types of lower network layers. By its very nature, TCP's adaption and re

Keywords: Net100, TCP Performance, Web100, instrumentation

16 [Performance modeling of multiprocessor implementations of protoco](#)

[Mats Björkman, Per Gunningberg](#)

June 1998 IEEE/ ACM Transactions on Networking (TON) , Volume 6 Issue

Publisher: IEEE Press

Full text available:  [Pdf](#) (285.80 KB) Additional Information: [full citation](#), [references](#), [cite](#)  
[review](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 28, Citation (


Keywords: multiprocessor, parallel communication protocols, performe  
queueing network model

17 [The click modular router](#)

 [Eddie Kohler, Robert Morris, Benjie Chen, John Jannotti, M. Frans Kaashoel](#)

August 2000 Transactions on Computer Systems (TOCS) , Volume 18 Issue

Publisher: ACM


Full text available:  [Pdf](#) (376.31 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)  
[terms](#)

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 292, Citatio

Clicks is a new software architecture for building flexible and configurab  
router is assembled from packet processing modules called elements. It  
implement simple router functions like packet classification, ...

Keywords: component systems, routers, software router performance

18 [SplitStream: high-bandwidth multicast in cooperative environments](#)

 [Miguel Castro, Peter Druschel, Anne-Marie Kermarrec, Animesh Nandi, Ant](#)  
[Singh](#)

December 2003 SOSP '03: Proceedings of the nineteenth ACM symposium  
systems principles

Publisher: ACM

Full text available:  [Pdf](#) (847.74 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)  
[terms](#)

Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 257, Citatio


In tree-based multicast systems, a relatively small number of interior nodes are required for forwarding multicast messages. This works well when the interior nodes are available, dedicated infrastructure routers but it poses a problem for applications in ad-hoc networks.

Keywords: application-level multicast, content distribution, end-system to-peer, video streaming

Also published in:


December 2003 SIGOPS Operating Systems Review Volume 37 Issue 5

#### 19 [GHT: a geographic hash table for data-centric storage](#)

 Sylvia Ratnasamy, Brad Karp, Li Yin, Fang Yu, Deborah Estrin, Ramesh Govindarajan, David L. Shenker

September 2002 WSN '02: Proceedings of the 1st ACM international workshop on sensor networks and applications


Publisher: ACM

Full text available:  [Pdf](#) (217.28 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 161, Citations: 1


Making effective use of the vast amounts of data gathered by large-scale sensor networks will require scalable, self-organizing, and energy-efficient data dissemination. Previous work has identified data-centric routing as one such method. This paper presents a new data-centric routing protocol, Geographic Hash Table (GHT), which is designed to be scalable and energy-efficient.

#### 20 [A measurement-based analysis of multihoming](#)

 Aditya Akella, Bruce Maggs, Srinivasan Seshan, Anees Shaikh, Ramesh Sitaraman, David L. D. Long

August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communication

Publisher: ACM

Full text available:  [Pdf](#) (386.82 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)





Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 81, Citations: 1

Multihoming has traditionally been employed by stub networks to enhance their network connectivity. With the advent of commercial "intelligent" products, stubs now leverage multihoming to improve performance. Although multihoming has been used for a long time, there has been little systematic study of its effectiveness. This paper presents a measurement-based analysis of multihoming in the context of modern network architectures.

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